Polycom® VSX™ 5000

Video conferencing system offering excellent price performance and flexibility

Benefits

Superior, natural sound – Polycom StereoSurround™ delivers crisp, natural voice clarity - even when multiple parties are speaking simultaneously – by using dual channel, Siren™ 14 technology

Outstanding video – Premium quality video at any bandwidth with smooth natural motion and sharp, clear images. Employs standard-based H.264 compression and Pro-Motion™ video for optimal video performance

Multimedia made easy – Show high-res images, movies or presentations in your meetings while in a video call. And, you can share PC content cable-free using Polycom's unique People+Content™ IP technology

Reliability – Integrated electronic Pan-Tilt-Zoom (PTZ) camera has fewer moving parts and therefore offers more reliability, while offering functionality similar to mechanical PTZ cameras

Secure Conferencing – Ensuring your video conferences are secure and private through embedded encryption via secure video, audio and data traffic; secure web management, protection against unauthorised access (web, telnet, FTP).

Complete solution packages – Combine the VSX 5000 with any of Polycom's attractive furniture display options to create a total meeting room solution

The Polycom Solution – Everything you need to deploy and manage a complete video conferencing network with Polycom Readi*Manager* SE 200, Polycom Global Management System™, Polycom PathNavigator™, Polycom Conference Suite™ and the Polycom MGC™

A compact and economical solution for small to medium-sized conference rooms.

Ideal for smaller conference spaces, the new entry-level Polycom VSX 5000 set-top system delivers market-leading video and audio quality at an affordable price. A real space-saver, it sits conveniently on top of TVs, high-resolution plasma screens, or LCD displays. You can easily add a peripheral (document camera, or VCR/DVD), dual monitors, and audio-only callers through ISDN or the SoundStation VTX 1000®. In fact the VSX 5000 gives you multiple ways of dialing conference attendees and delivering various types of content (for example, pictures, presentations, audio files). Connection options include IP (H.323 and SIP) and ISDN dialling, so you can utilise the VSX 5000 in a variety of conference environments.

The VSX 5000 is also well-suited for educational resource rooms where smaller groups of students meet with a remote educational specialist, and remote medical clinics that deliver specialist care to patients hundreds of kilometers from home.

The VSX 5000 includes features and benefits such as a user interface in 15 languages, multiple ways to add content, and dual monitor emulation for single display solutions. Choose either a VGA display or a TV as your main display, whichever suits your conferencing environment. The ISDN option enables you to add ISDN conferencing capability as well, and the dual monitor option allows you to show people in one display and shared content in the other display.

Add simplicity and reduce conference table clutter by taking advantage of the Polycom SoundStation VTX 1000 integration with the VSX 5000. This integration gives users the ability to dial, hang up and mute a video conference right from the conference phone. Since the SoundStation VTX 1000 acts as the stereo microphone as well as a standalone conference phone, there is no need for any other microphone on the table. Plus, dedicated stereo audio outputs enable easy implementation of Polycom's StereoSurround™ technology, which separates multiple voices with conversational stereo.

In today's Internet driven world, the ability to conduct real time communication and collaboration has become critical to an organisation's survival. As the market leader in voice, video, data and Web solutions, our award-winning conference technology makes it easy for people to interact and maximise productivity – over any network, in numerous environments, anywhere around the globe. That's why more organisations worldwide prefer using Polycom conferencing solutions. Because when people work together, great things happen.

Polycom VSX 5000 Specifications

H.323, SIP and H.320 compliant

VSX 5000 Bundled Packages

- VSX 5000 VTX: VSX 5000 system with SoundStation VTX 1000 instead of the microphone array
- VSX 5400 Presenter: VSX 5000 system, Visual Concert™ VSX, People+Content IP
- VSX 5400 Presenter VTX: VSX 5000 system, Visual Concert VSX, People+Content IP, SoundStation VTX 1000 instead of microphone array

Bandwidth

- Maximum Data Rate IP: 768Kbps
- Maximum Data Rate ISDN: 512Kbps

Video Standards & Protocols

- H.261
- H.263+ Annexes: F, I, J, L, N, T
- H.263++ Annexes: W (receive-only)
- H.264

Frame Rates (Point-to-Point)

- Intelligently selects frame rate for best performance video
- 30 fps from 56 kbps up to 768 Kbps

Video Inputs:

- Main Camera + 1

Connectors

- Integrated main camera
- 1 x S-Video; 4-pin mini DIN Document camera, VCR/DVD or second camera)
- RS-232 Data Port: 1 x 8-pin mini DIN
  - Control port for custom integration with remote devices such as Crestron® and AMX® control systems
  - Connectivity for closed captioning teletype device
  - Communication port for transmission of serial data (i.e. medical devices) over ISDN or IP calls

Video Outputs: 3 Connectors

- 2 x S-Video 4-pin mini DIN
- 1 x VGA HD15

Video Formats

- NTSC/PAL
- Graphics: XGA, SVGA, VGA

Integrated Main Camera

- Noiseless, ultra-fast action electronic pan/tilt/zoom (PTZ)
- 65° field of view
- Electronic Tilt Range: +/- 24° (Up/Down)
- Electronic Pan Range: +/- 42.5° (Left/Right)
- 85° Total Field of View
- 2x Zoom
- Lens F#: 2.8mm
- Focal length: 4.9mm
- Fixed focus
- Automatic white balance
- Camera presets – local and far-end (up to 99)
- Standards-based, far-end camera control (FECC)

People Video Resolution

- 4SIF (704 x 480), 4CIF (704 x 576) *2nd video only
- SIF (352 x 240), CIF (352 x 288)
- QSIF (176 x 120), QCIF (176 x 144)
- Choice of 4:3 or 16:9 display aspect ratios

Content Video Resolution

- XGA (1024 x 768), SVGA (800 x 600), VGA (640 x 480) for graphic displays
- People video support for 4CIF and 4SIF on second VGA display
- Up to 4CIF for NTSC/PAL displays

Audio Standards & Protocols

- Polycom StereoSurround ready
- 14 kHz bandwidth with Polycom Siren™ 14 (G.722.1 Annex C)
- 7 kHz bandwidth with G.722, G.722.1
- 3.4 kHz bandwidth with G.711, G.728, G.729A

Audio Features

- Audio only add-in over ISDN
- Full-duplex digital audio
- Instant Adaptation Echo Cancellation
- Automatic Gain Control (AGC) – Voice activated
- Automatic Noise Suppression (ANS)
- Audio Mixer (Mic, VCR, line-in)
- Real-time audio level meter
- Microphone and VCR input audio mixing
- Ability to talk over VCR audio

Audio Inputs: 3 Connectors

- 1 x Conference Link
  - Supports 1 microphone
  - Supports SoundStation VTX 1000 conference phone
- 1 x RCA input for stereo or mono input from external mixer

Audio Outputs: 2 Connectors

- Main Audio Out (RCA Stereo)

Polycom Digital Tabletop Microphone

- 360° voice pick up
- Three cardioid elements per microphone
- Flotation feet reduce transmission of tabletop noise
- Integrated mute button
- Optional Polycom Ceiling Microphone Array is available

Other ITU-Supported Standards

- H.221 communications
- H.224/H.281 far-end camera control
- H.323 Annex Q far-end camera control
- H.225, H.245, H.241, H.331
- H.239 People+Content™
- H.231 in multipoint calls
- H.243 MCU password
- H.233, H.234, H.235V3 encryption standards
- H.460 NAT/firewall traversal
- Bonding, Mode 1

SIP Support (Sessions Initiation Protocol)

- Register and authenticate with:
  - Microsoft LCS
  - Nortel MCS
  - Standards-based SIP servers
- FECC
- H.261, H.263, H.264
- G.711, G.722, G.722.1, G.728, G.729A, Siren 14 (G.722.1 Annex C)
- Microsoft LCS contact list support
- Microsoft LCS presence support
- Interoperable with Microsoft Office Communicator

Network Interfaces Supported

- Single 10/100 Ethernet port (10Mbps/100Mbps/Auto)
- Optional ISDN BRI (Basic Rate Interface) Module
- Optional wireless LAN support via customer provided wireless bridge

Network Features

- Integration with Cisco Systems® CallManager Version 4.0
- Down speeding over IP and ISDN
- Audio & Video Error Concealment over IP, ISDN and mixed calls
- IP address conflict warning
- Maximum call length digital timer
- Auto SPID detection and line number configuration
- MGC™ Click&View™ for individual screen layouts
- Polycom OneDial™ intelligent call management attempts call on preferred network (IP or ISDN) and automatically rolls over to secondary network if needed
- Polycom PathNavigator™ support for easy call placement and network cost optimization
- TCP/IP, UDP/IP, RTP, DNS, WINS, DHCP, ARP, HTTP, FTP, Telnet
- Chair control through API command or Integrated Web Interface.
- Software Upgradeable Inverse Multiplexer (IMUX)

Conference on Demand

- Initiates unscheduled MGC calls from the endpoint
- Utilises Polycom Office™ (PathNavigator and MGC)
- Auto selects an external bridge
- Dials all participants simultaneously

Security

- Account validation number entry
- SNMP trap notification of all failed login attempts from HTTP, FTP or Telnet
- FIPS 140-2 (Pre-validation List)
  - Secure web (HTTPS)
  - Secure Telnet, FTP
  - Security mode
- Secure password authentication
- Administrator password – in-room and remote access
- Dial-in meeting password
- Encrypted password for VSX Web access
- Ability to disable remote interfaces (FTP, Telnet, HTTP, SNMP)
- Auto-Answer (On/Off)
- Allow access to user settings (On/Off)

Embedded Encryption

- Advanced Encryption Standard (AES)
- FIPS 197 validated by National Institute of Standards & Technology (NIST) certified agency
- 128-bit key length
- AES software encryption on ISDN and IP
- Standards-based H.235V3 (IP)
- Standards-based H.233/H.234 (ISDN/Serial)
- Automatic key generation and exchange
- Supported in People+Content

User Interface

- User-friendly graphical interface
- Customisable home screen and color themes
- Kiosk mode with scrolling marquee
- User-selectable camera icons and ring tones
- Speed Dial List on home page
- Persistent Preview (Far-site PIP) on all screens
- Picture In Picture (PIP) (On/Off, Moveable)
- Dual Monitor Emulation
- Calendar and Conference scheduling
- Alert Signal on home page
- Do Not Disturb (On/Off)
- Closed captioning support

Directory Services

- 4,000 number global directory
- 1,000+ number local directory
- Speed dial list displaying video buddy list
- Live address book with Polycom Global Directory Services automatically and quickly updates directory with address changes or new endpoints
- Polycom Global Directory Services integrates with Active Directory/LDAP
- Directory Server backup in the event Polycom Global Directory is not accessible
- Automatic ISDN localisation of calls
- Closed captioning support

System Management

- SNMP for enterprise management
- Baseline mode setting for legacy system interoperability
- Diagnostics and software upgrades via PC, LAN
- Integrated VSX Web management tool
- Web Director: Remote administrator video monitoring and control from VSX Web (enabled/disabled from endpoint for security)
- Out-of-box setup from VSX Web
- Place a call from VSX Web
- Language independence between set-top interface and VSX Web
- System configuration from VSX Web
- Recent Calls Log – last 99 incoming and outgoing calls
- Call Detail Record (CDR) – Reports all incoming and outgoing calls along with call statistics
- CDR Feature On/Off
- Downloadable CDR data for processing requires no external management system
- Account number validation at call initiation integrated with Polycom Global Management™ System for billing purposes
- Administrator-configurable dialing speeds

iPriority™ – Quality of Service Features

- Video Error Concealment
- Audio Error Concealment
- Universal Plug and Play (UPnP)
- IP Precedence (ToS)
  - Configurable video/audio/FECC service value
- DiffServ (DSCP) (COS)
- RSVP
- Dynamic Bandwidth Allocation
- Proactive Network Monitoring
- Adjustable Packet Size
- NAT/firewall traversal (H.460)
- Packet and jitter control
- Network Address Translation (NAT) support
- Automatic NAT discovery
- Asymmetric speed control
- Alternate Gatekeeper Support
- TCP/UDP fixed-port firewall support
- Lip synchronisation
- Echo cancellation
- Echo suppression
- Auto gatekeeper discovery
- Automatic gateway dialing profiles
- Specify outbound call routing for gateway/ ISDN

Collaboration Solutions

- Visual Concert VSX (Audio and video input from PC or Macintosh®) (Optional)
  - 1 x audio input for laptop
  - 1 x VGA output for projector
  - 3 x 10/100 Ethernet hub
  - Content Input: 1280 x 1024, 60 Hz
  - Content Output: Up to 1024 x 768
- People+Content IP (Optional)
  - Show content from laptop/PC over IP network connection
  - Content shown in native resolution
  - Supports Windows® 2000 and Windows XP
- QSX (Optional)
  - Connect to Visual Concert to show content from laptop/PC
  - Content shown in native resolution
  - Up to 10 voice participants can view content being shared
- Adjustable bandwidth for content
  - 10% Content, 90% People
  - 50% Content, 50% People
  - 90% Content, 10% People
- Web Streaming in and out of a call, RTP-based, suitable with QuickTime® Players

Furniture solutions

- Media Center with audio system
- Media Center
- Media Cart
- Video Cart
- Wall Mount Solution

Language Support (15 languages)

- Chinese (Simplified), Chinese (Traditional), English (American), English (British), French, German, Hungarian, Italian, Japanese, Korean, Norwegian, Polish, Portuguese, Russian, Spanish
- Translated items include:
  - Documentation (not Hungarian/Polish)
  - User interface
  - Audio dialing confirmation
  - VSX web
  - Remote control (not Hungarian/Polish)

Electrical

- Auto sensing power supply
- Operating voltage/power 90-260 VAC, 47-63 Hz/80 watts
- Max 75 VA@115v60Hz, 85 VA@220v50Hz
- Max Heat Dissipation: 273 BTU/hour

Environmental Specifications

- Operating Temperature: 0-40° C
- Operating Humidity: 15-80%
- Non-Operating Temperature: -40-70° C
- Non-Operating Humidity (Non-condensing): 10-90%

Physical Characteristics

- Video Base Unit (W/H/D): 300.5mm/133.26mm/254.5mm 11.83"/5.25"/10.02",
- Video Base Unit Weight: 1.94Kg/4.4 lbs

Warranty

- One-year return to factory parts and labour
- 90-day Software Warranty

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